

TABLE OF CONTENTS

Vol. 53 No. 1 1992

Obituary	1
SEBASTIÁN FERRER and BRUCE R. MILLER / Coordinates for Perturbed Keplerian Systems with Axial Symmetry	3
JUAN GETINO / Elastic Energy of a Deformable Earth: General Expression	11
JOSEF KALLRATH / Trajectories and Envelopes in the Repulsive Two- Fixed-Centre Problem and in the Restricted Three-Body Problem	37
O. MONTENBRUCK / Numerical Integration Methods for Orbital Motion	59
H. G. WALTER / Corrections to the Luni-Solar Precession Derived from a Compilation Catalogue of Extragalactic Radio Sources	71
SERGEI A. KLIONER / The Problem of Clock Synchronization: A Relativistic Approach	81
The Use of the "SPACEKAP" Style File for Delivering Manuscripts in LaTeX	111

Vol. 53 No. 2 1992

ALESSANDRA CELLETTI and CORRADO FALCOLINI / Construction of Invariant Tori for the Spin-Orbit Problem in the Mercury-Sun System	113
ADRIAN BRUNINI / On the Unmodeled Perturbations in the Motion of Uranus	129
HARUO YOSHIDA / On a Class of Variational Equations Transformable to the Gauss Hypergeometric Equation	145
JOHN D. HADJIDEMETRIOU / The Elliptic Restricted Problem at the 3 : 1 Resonance	151
E. BOIS, I. WYTRZYSZCZAK, and A. JOURNET / Planetary and Figure-Figure Effects on the Moon's Rotational Motion	185
Book Review Christian Marchal, <i>The Three-Body Problem</i> (DONALD G. SAARI)	203
The Use of the "SPACEKAP" Style File for Delivering Manuscripts in LaTeX	205

Vol. 53 No. 3 1992

FRANÇOIS PUEL / Explicit Solutions of the Three-Dimensional Inverse Problem of Dynamics, Using the Frenet Reference Frame	207
MANAZIRUDDIN and R. B. SINGH / Effects of Small External Forces on the Planar Oscillation of a Cable Connected Satellites System	219
ANGEL R. PLASTINO and JUAN C. MUZZIO / On the Use and Abuse of Newton's Second Law for Variable Mass Problems	227
YAN-CHAO GE and XIAOLING LENG / An Alternative Deduction of the Hill-Type Surfaces of the Spatial 3-Body Problem	233
STANISLAV D. FURTA / On the Instability of "Folded" Equilibria of a Flexible Nonstretchable Thread Attached to the Satellite in a Circular Orbit	255
J. HAGEL / A New Analytic Approach to the Sitnikov Problem	267
CHENG HUANG and LIN LIU / Analytical Solutions to the Four Post-Newtonian Effects in a Near-Earth Satellite Orbit	293
The Use of the "SPACEKAP" Style File for Delivering Manuscripts in LaTeX	309

Vol. 53 No. 4 1992

J. A. LÓPEZ ORTI, A. LÓPEZ GARCÍA and R. LÓPEZ MACHÍ / Figures of Equilibrium in Close Binary Systems	311
E.V. BRUMBERG / Length of ARC as Independent Argument for Highly Eccentric Orbits	323
CH. TSITOURAS, G. PAPAGEORGIU and T. KALVOURIDIS / On the Efficiency of Runge-Kutta-Nystrom Methods with Interpolants for Solving Equations of the Form $y'' = f(t, y, \psi')$ over Short Timespans	329
JOSÉ-MANUEL FERRÁNDIZ, MARIA-EUGENIA SANSTURIO and JOSEPH R. POJMAN / Increased Accuracy of Computations in the Main Satellite Problem Through Linearization Methods	347
HIROSHI KINOSHITA / Analytical Expansions of Torque-Free Motions for Short and Long Axis Modes	365
M.E. DAVIES, V.K. ABALAKIN, A. BRAHIC, M. BURSA, B.H. CHOVITZ, J.H. LIESKE, P.K. SEIDELMANN, A.T. SINCLAIR and Y.S. TJUFLIN / Report of the IAU/IAG/COSPAR Working Group on Cartographic Coordinates and Rotational Elements of the Planets and Satellites: 1991	377
The Use of the "SPACEKAP" Style File for Delivering Manuscripts in LaTeX	399

